

Title (en)
Acoustic microscope system.

Title (de)
Akustisches Mikroskopsystem.

Title (fr)
Système de microscope acoustique.

Publication
EP 0488300 A2 19920603 (EN)

Application
EP 91120416 A 19911128

Priority
• JP 3200391 A 19910131
• JP 33164790 A 19901129
• JP 33164890 A 19901129

Abstract (en)
An acoustic microscope system having an ultrasonic probe that is driven with a high-frequency burst signal to radiate an ultrasonic signal and that detects the resulting reflected and irradiated waves, a Z-axis moving means that updates the vertical distance Z between said probe and a material of interest for each sampling position, and a means of constructing a V(z) curve from the reflection signals obtained at respective sampling positions. The ultrasonic probe of the invention is provided with an acoustic lens, a first ultrasonic transducer for receiving a leaky surface skimming compressional wave reflected from a sample material that is disposed on one side of the acoustic lens, and a second ultrasonic transducer disposed on the side of the acoustic lens for receiving a leaky surface acoustic wave. <IMAGE>

IPC 1-7
G01H 3/12; G01N 29/04; G01N 29/06; G01N 29/22

IPC 8 full level
G01N 29/06 (2006.01); **G01S 15/89** (2006.01)

CPC (source: EP US)
G01N 29/06 (2013.01 - EP US); **G01S 15/8906** (2013.01 - EP US)

Cited by
CN111796028A

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0488300 A2 19920603; EP 0488300 A3 19920826; EP 0488300 B1 19960717; DE 69120905 D1 19960822; DE 69120905 T2 19961128; US 5211059 A 19930518

DOCDB simple family (application)
EP 91120416 A 19911128; DE 69120905 T 19911128; US 80011791 A 19911129